

SONY

TRINITRON® COLOUR MONITOR BASIC SCHEMATIC DIAGRAM

KX-27PS1

Chassis No.: SCC-405B-A

NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE TECHNICIAN.

KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.


Sony Corporation

4-491-645-01

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Printed in Japan







SAFETY-RELATED COMPONENT WARNING!!

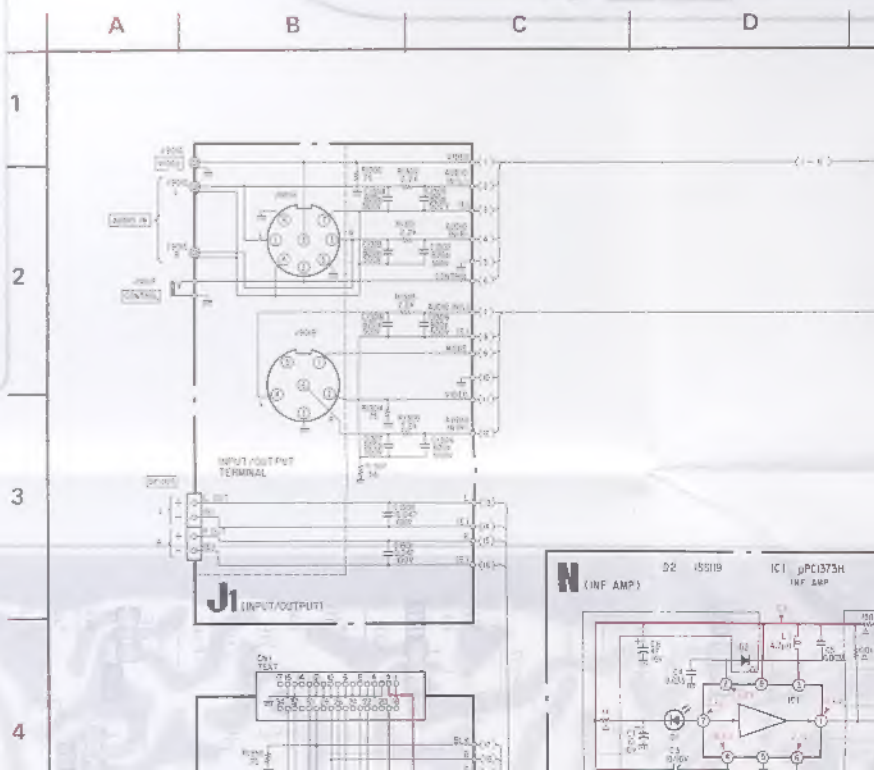
COMPONENTS IDENTIFIED BY SHADING AND  MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

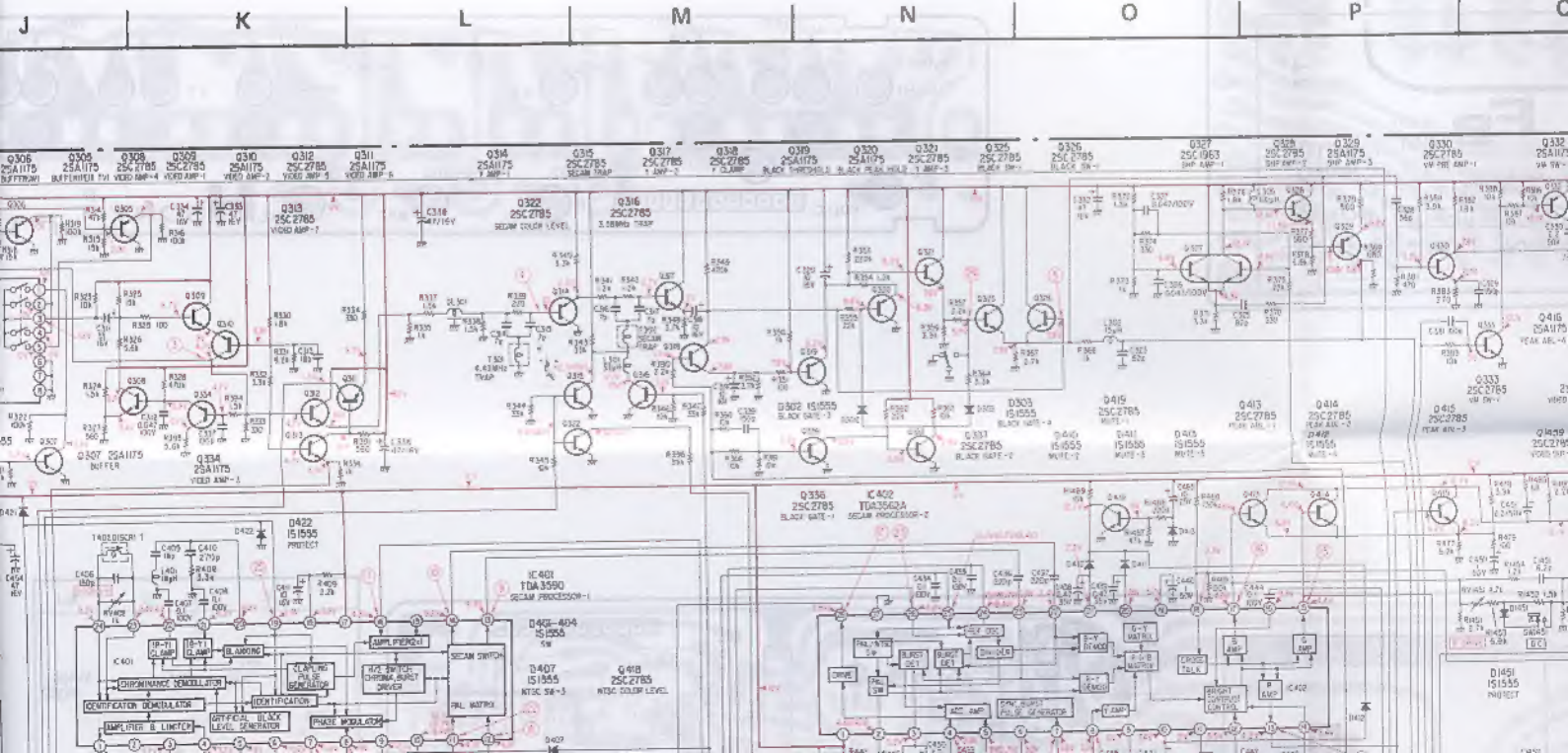
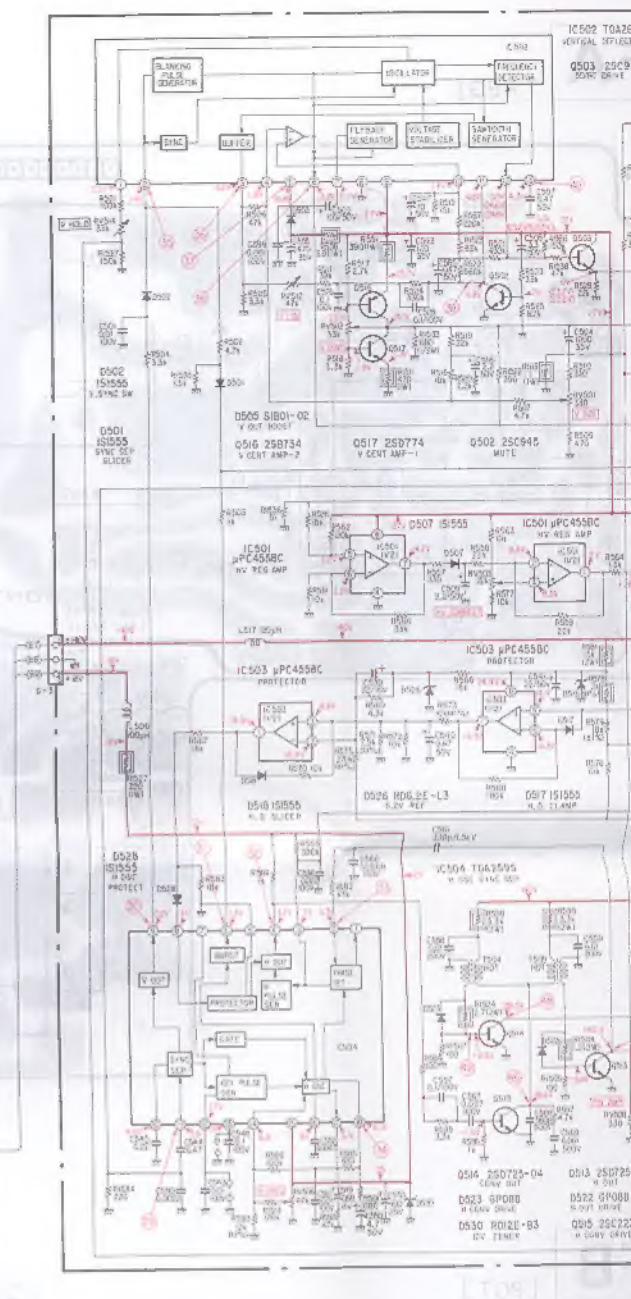
CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THE SERVICE MANUAL PUBLISHED BY SONY. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

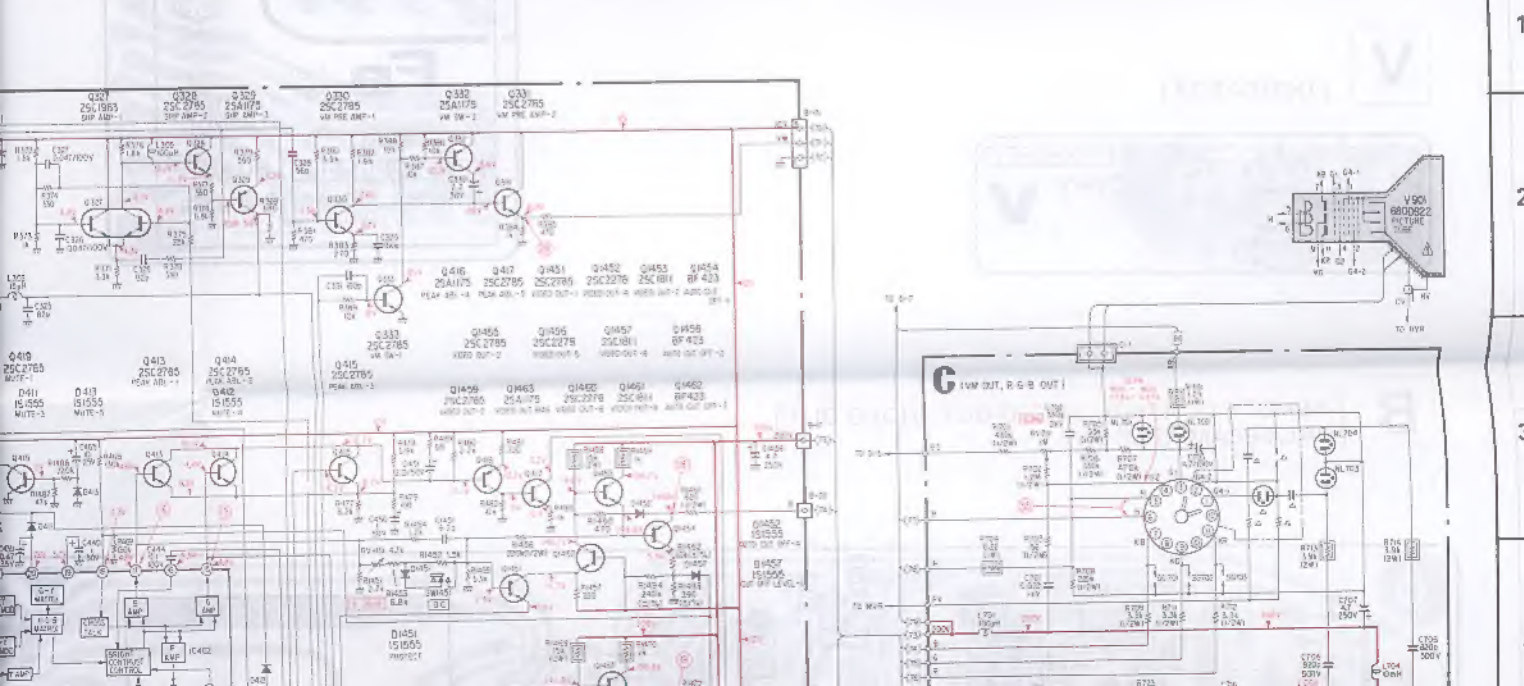
SCHEMATIC DIAGRAM

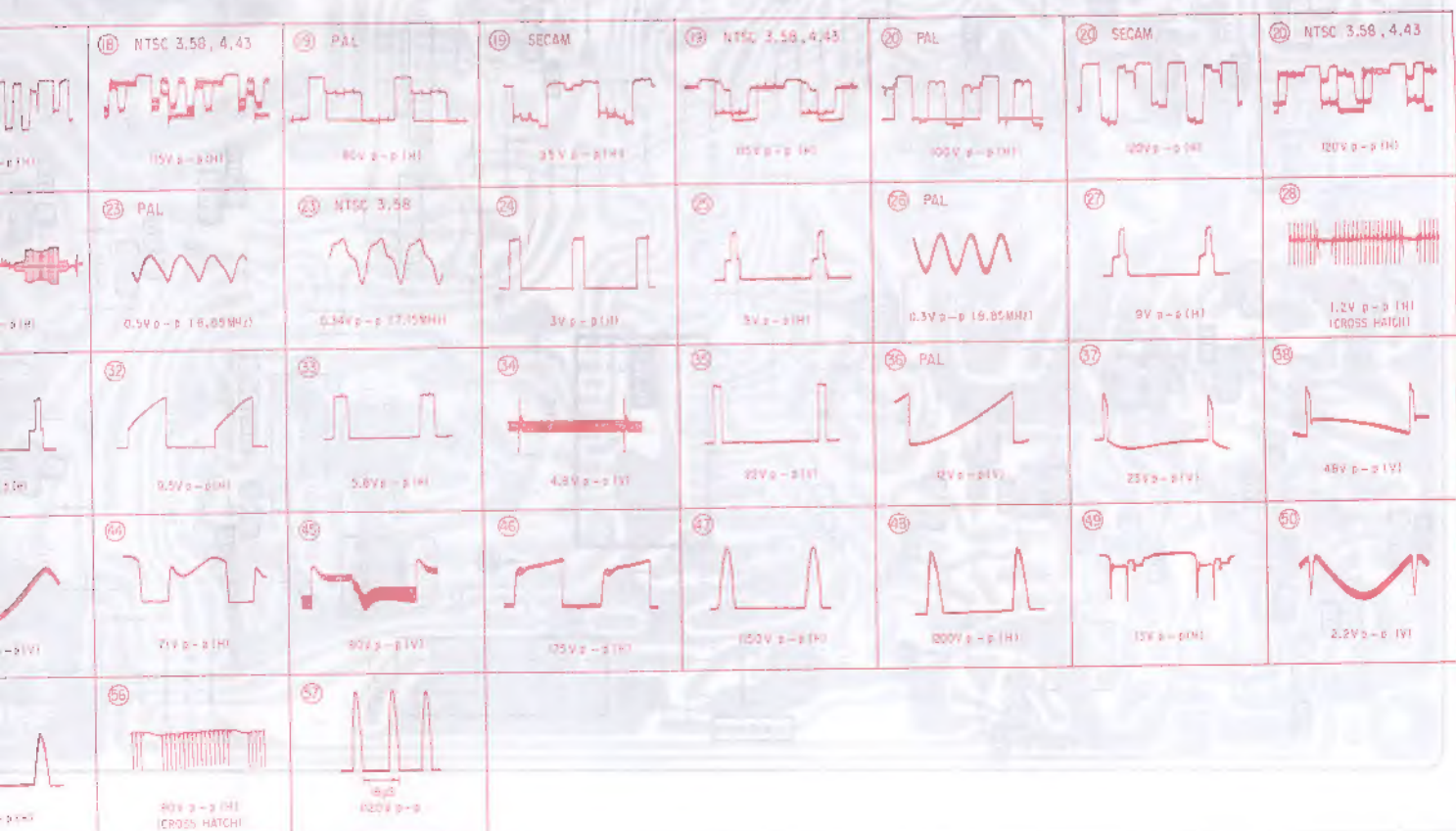
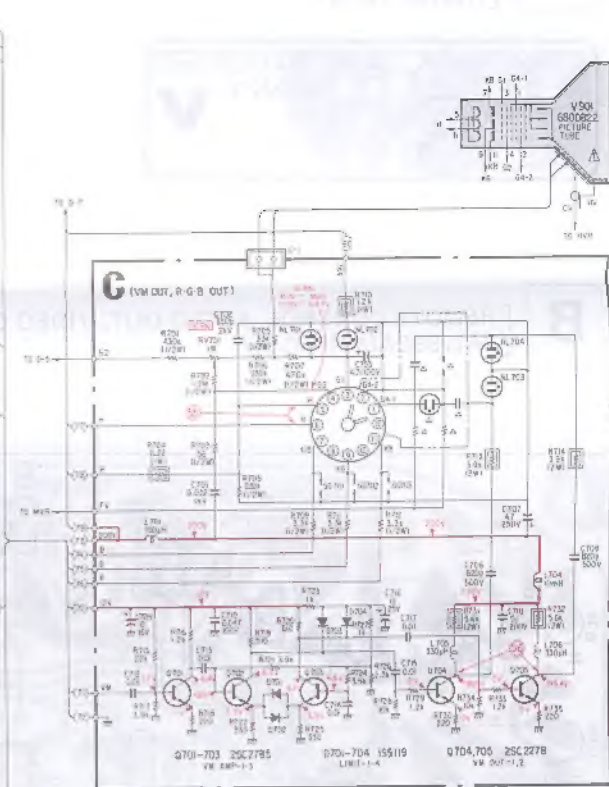
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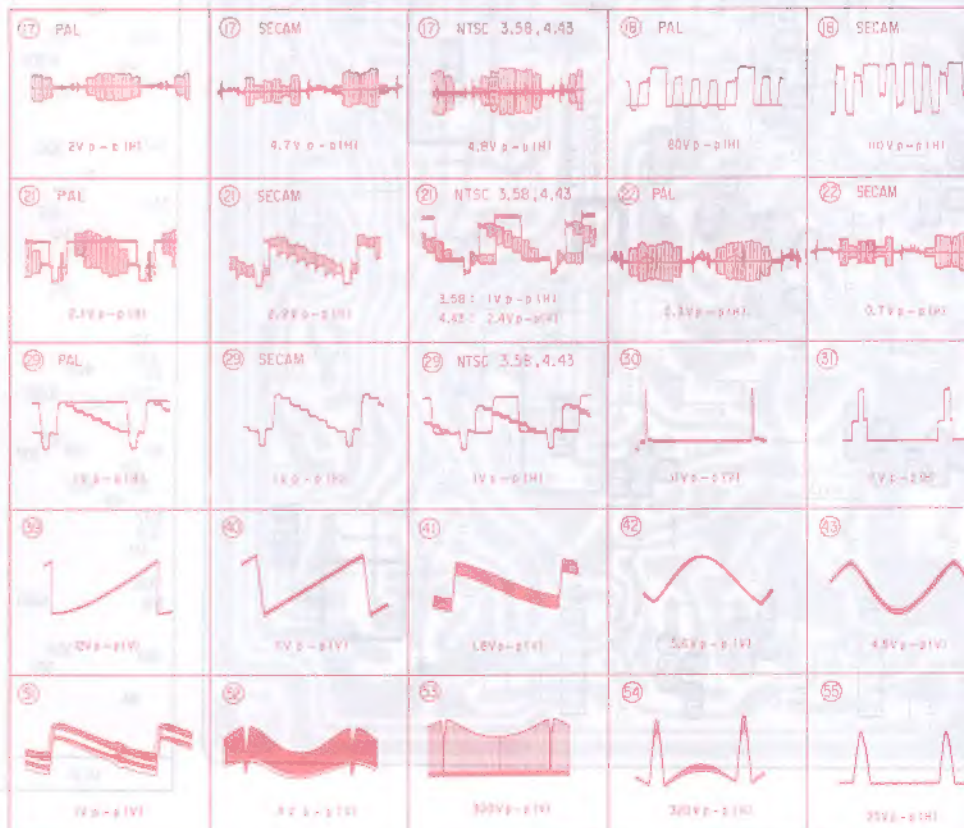
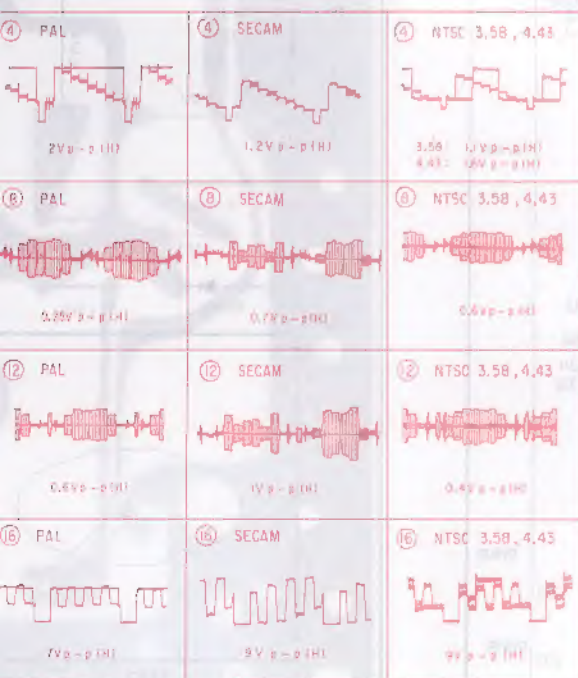
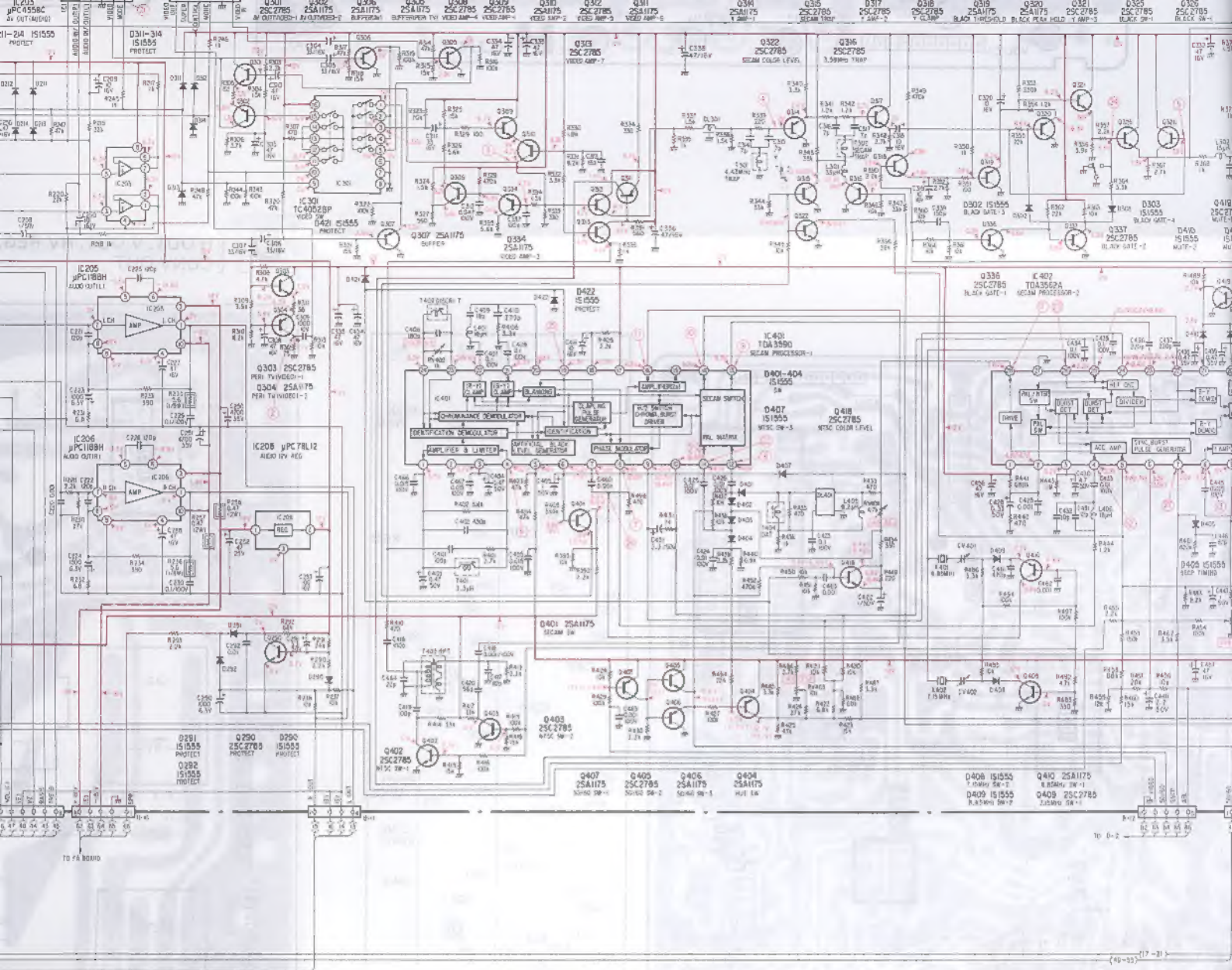
- All capacitors are in μF unless otherwise noted.
50WV or less are not indicated except for electrolytics.
p : μF
- All resistors are in ohms. $\frac{1}{2}\text{W}$ unless otherwise noted.
k Ω : 1000 Ω , M Ω : 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : fusible resistor.
- Δ : internal component.
-  : panel designation.
-  : adjustment for repair.
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- All voltage are in V.
No Mark : PAL or COMMON
() : SECAM
< > : NTSC 4.43
[] : NTSC 3.58
- Readings are taken with a 10-M Ω digital multimeter.















p : μF

- All resistors are in ohms. $\frac{1}{4}\text{W}$ unless otherwise noted.
k Ω : 1000 Ω , M Ω : 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : fusible resistor.
- \triangle : internal component.
-  : panel designation.

•  : adjustment for repair.

•  : B+ bus.

•  : B- bus.

• Voltages are dc with respect to ground unless otherwise noted.

• All voltage are in V.

No Mark : PAL or COMMON

() : SECAM

< > : NTSC 4.43

| | : NTSC 3.58

• Readings are taken with a 10 M Ω digital multimeter.

• Readings are taken with a color-bar signal input.

2

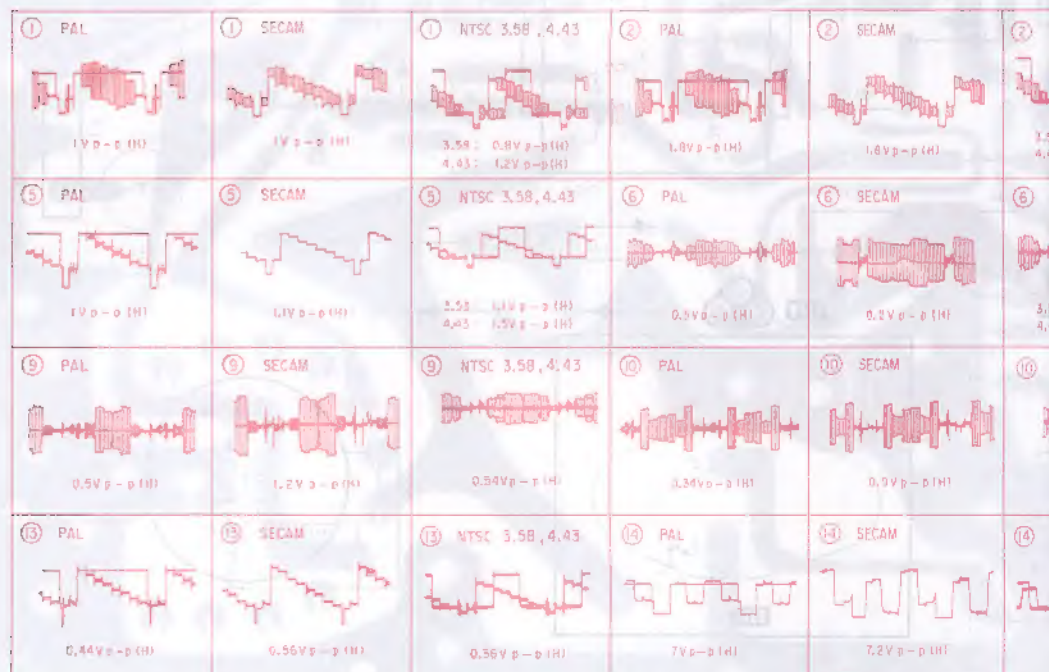
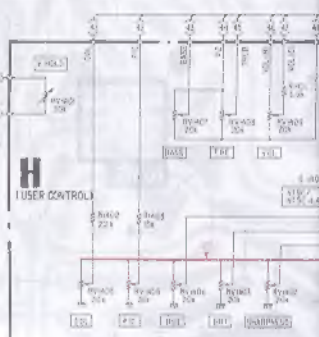
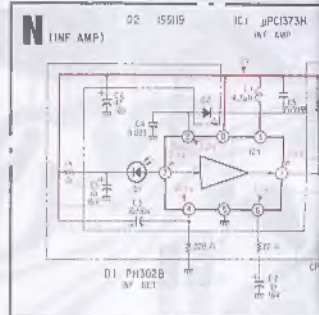
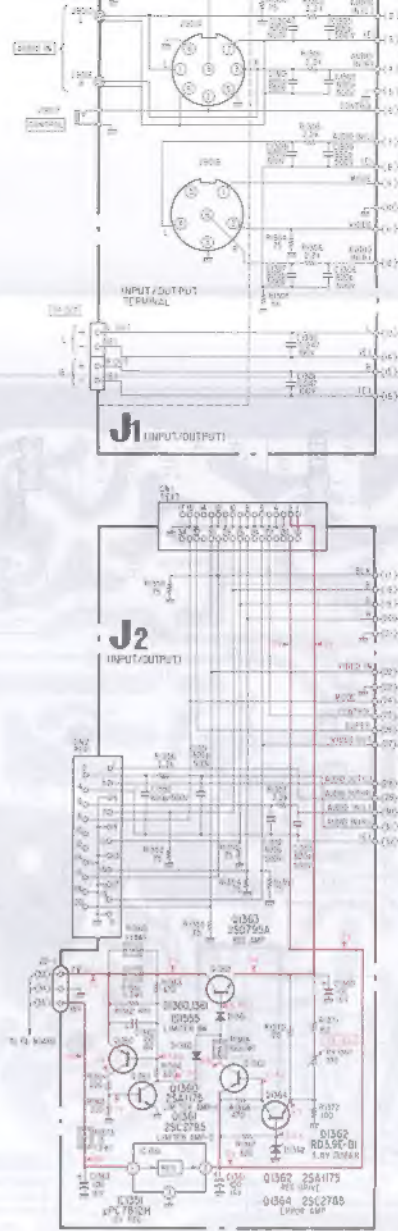
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4

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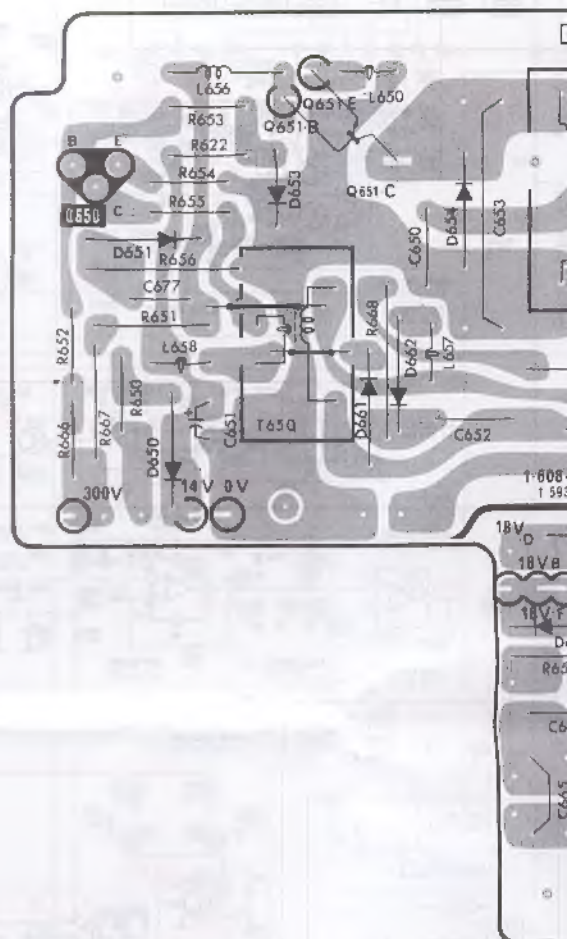
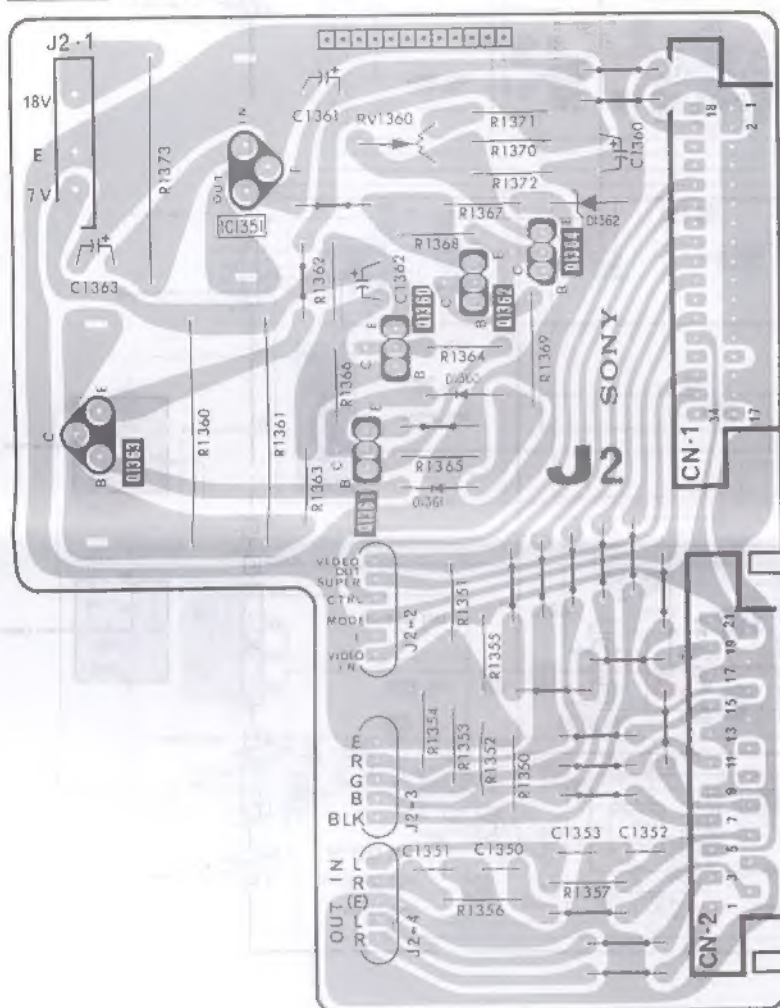
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7

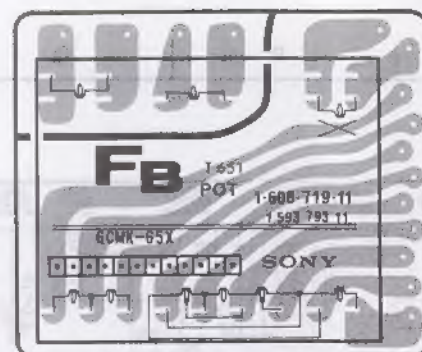


FA [REG]

J2 [IN PUT/OUT PUT]



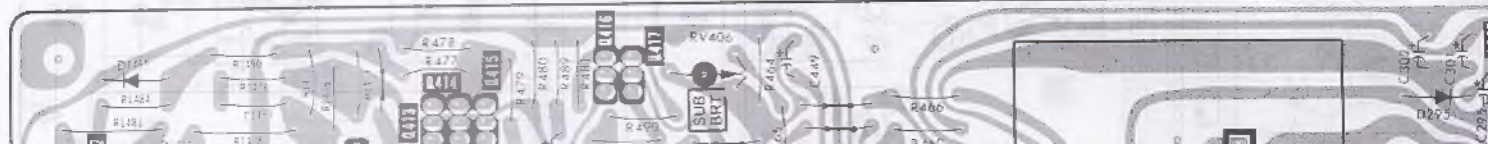
FB [POT]



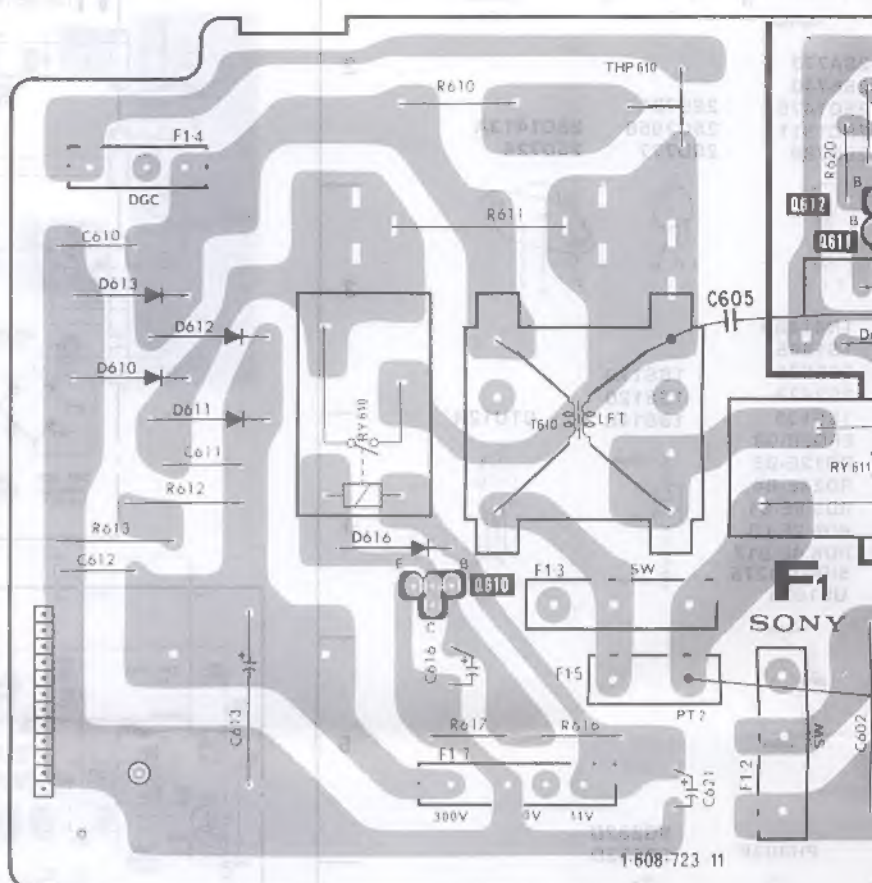
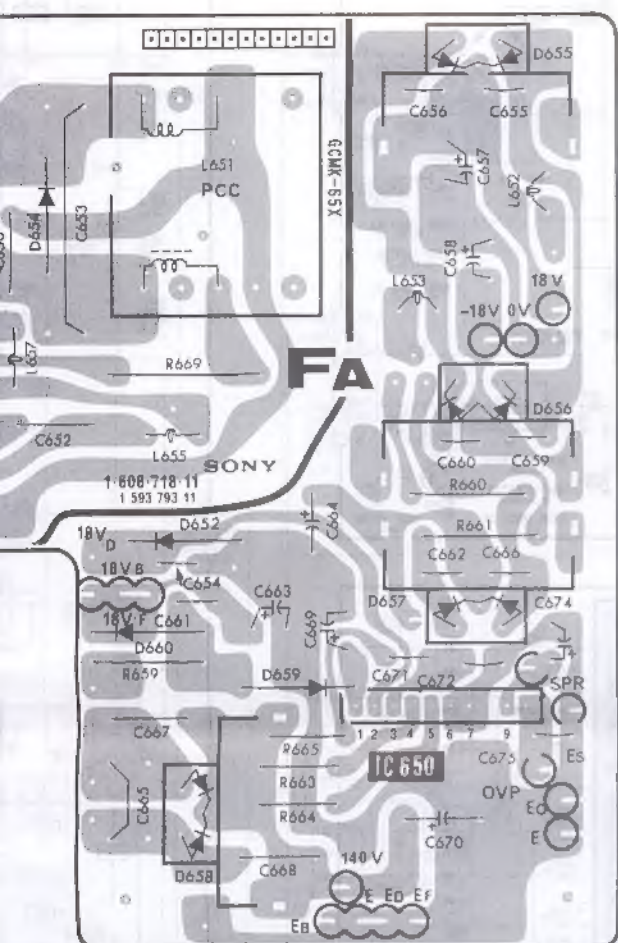
| V | [INDICATOR] |
|-----|-------------|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
| 47 | 47 |
| 48 | 48 |
| 49 | 49 |
| 50 | 50 |
| 51 | 51 |
| 52 | 52 |
| 53 | 53 |
| 54 | 54 |
| 55 | 55 |
| 56 | 56 |
| 57 | 57 |
| 58 | 58 |
| 59 | 59 |
| 60 | 60 |
| 61 | 61 |
| 62 | 62 |
| 63 | 63 |
| 64 | 64 |
| 65 | 65 |
| 66 | 66 |
| 67 | 67 |
| 68 | 68 |
| 69 | 69 |
| 70 | 70 |
| 71 | 71 |
| 72 | 72 |
| 73 | 73 |
| 74 | 74 |
| 75 | 75 |
| 76 | 76 |
| 77 | 77 |
| 78 | 78 |
| 79 | 79 |
| 80 | 80 |
| 81 | 81 |
| 82 | 82 |
| 83 | 83 |
| 84 | 84 |
| 85 | 85 |
| 86 | 86 |
| 87 | 87 |
| 88 | 88 |
| 89 | 89 |
| 90 | 90 |
| 91 | 91 |
| 92 | 92 |
| 93 | 93 |
| 94 | 94 |
| 95 | 95 |
| 96 | 96 |
| 97 | 97 |
| 98 | 98 |
| 99 | 99 |
| 100 | 100 |



B [REMOTE CONTROL, AUDIO OUT, VIDEO OUT]
[PAL/SECAM/NTSC SW]

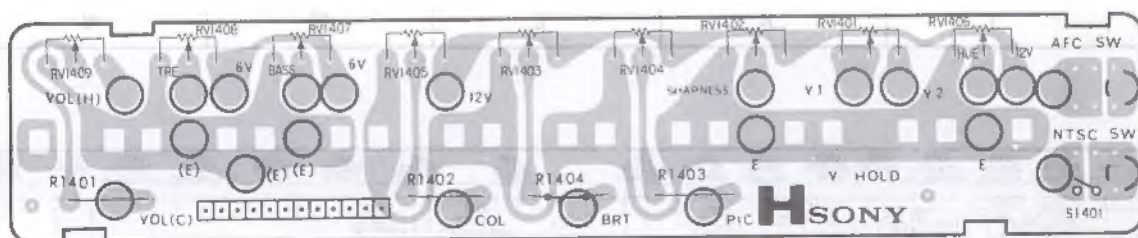


[LINE RECT, REG DRIVE]



H

[USER CONTROL]



D

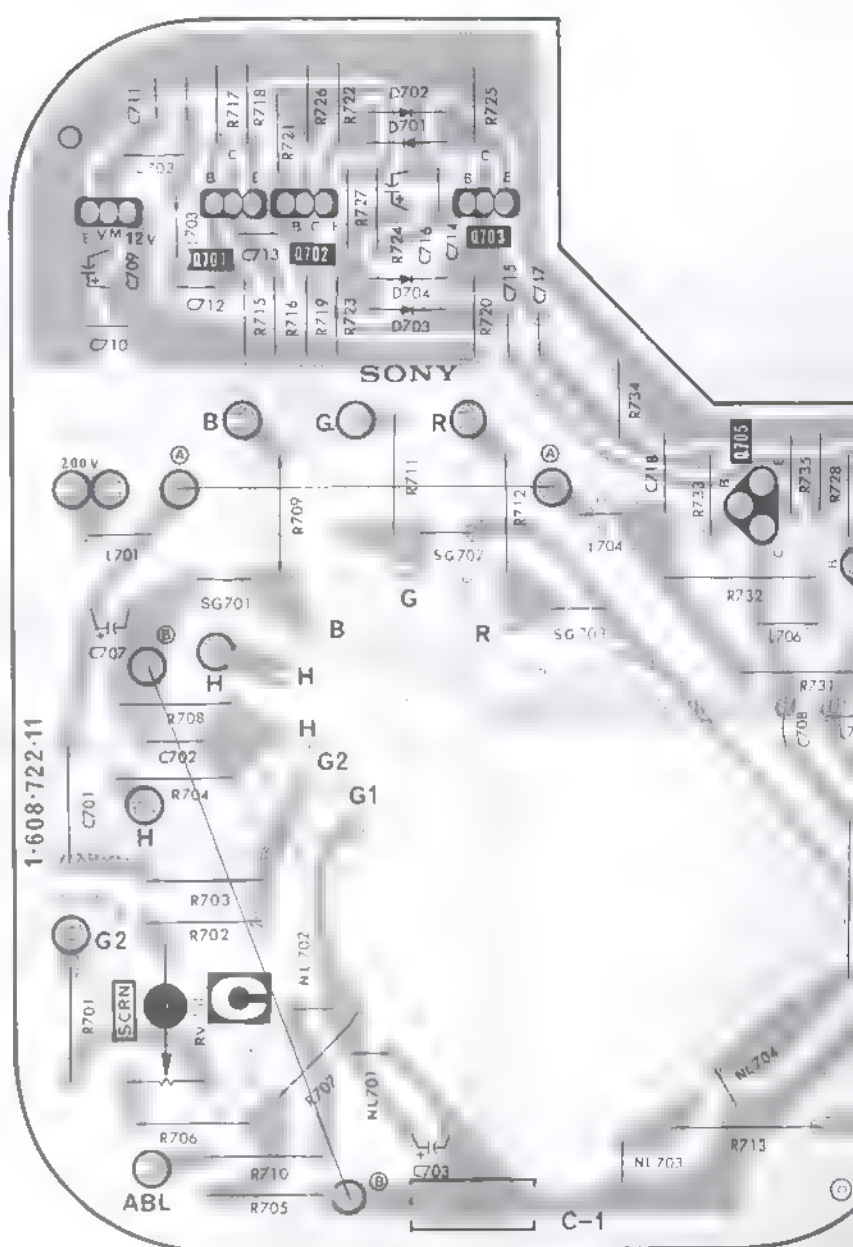
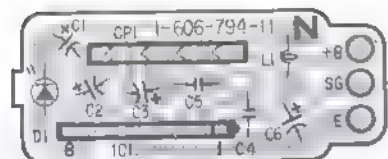
H OUT, V OUT,
CONV OUT



| Q, °C | D | ADJ |
|------------|------|----------------|
| 416 417 | 1455 | RV406 RV202 |
| 415 414 | 295 | |
| 295 296 | 1454 | |
| 257 | | |



[VM OUT, R·G·B OUT]

OUT, V OUT, HV REG, PIN OUT
CONV OUT

1

789

9

10

11

12

13

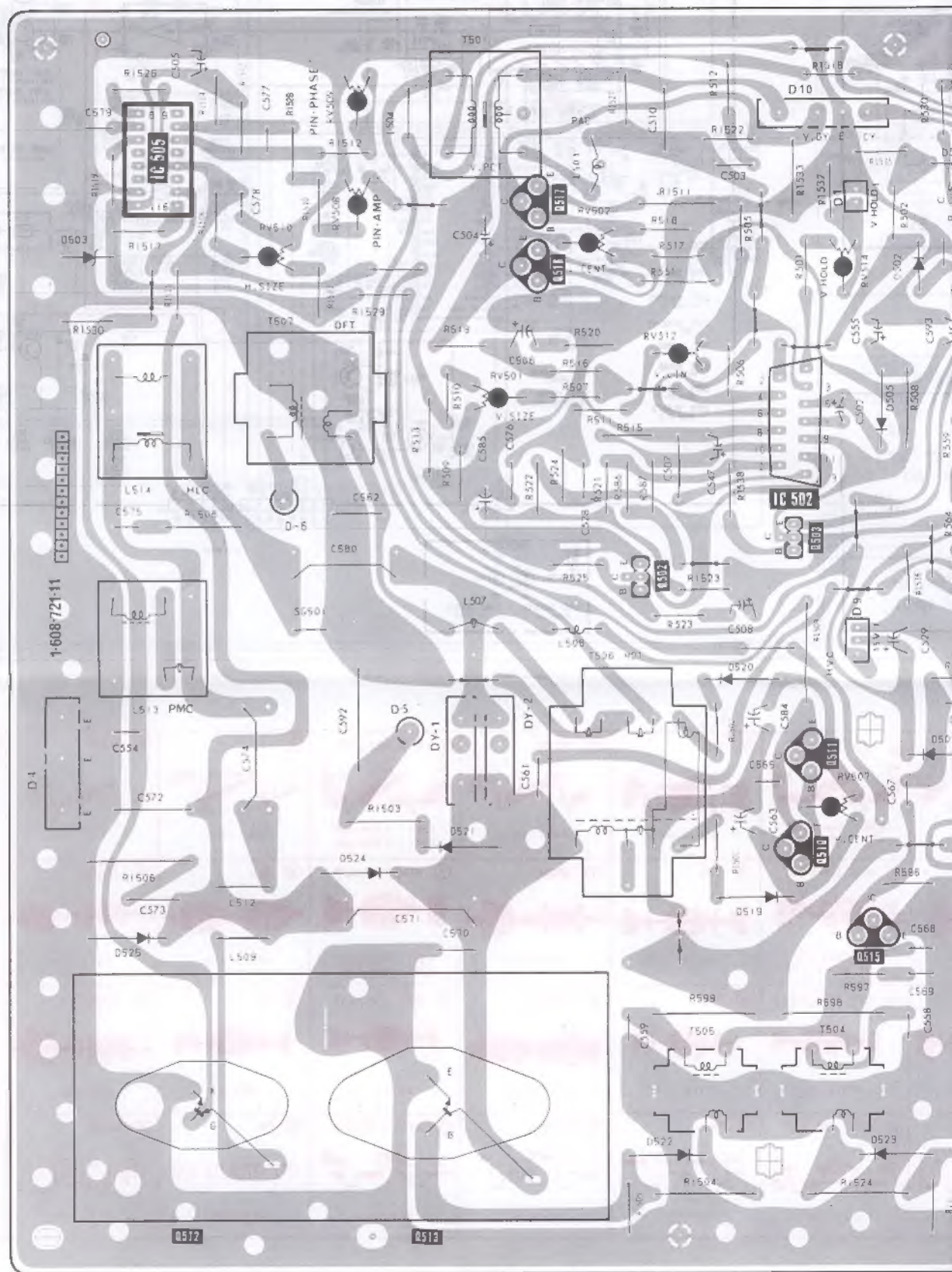
14

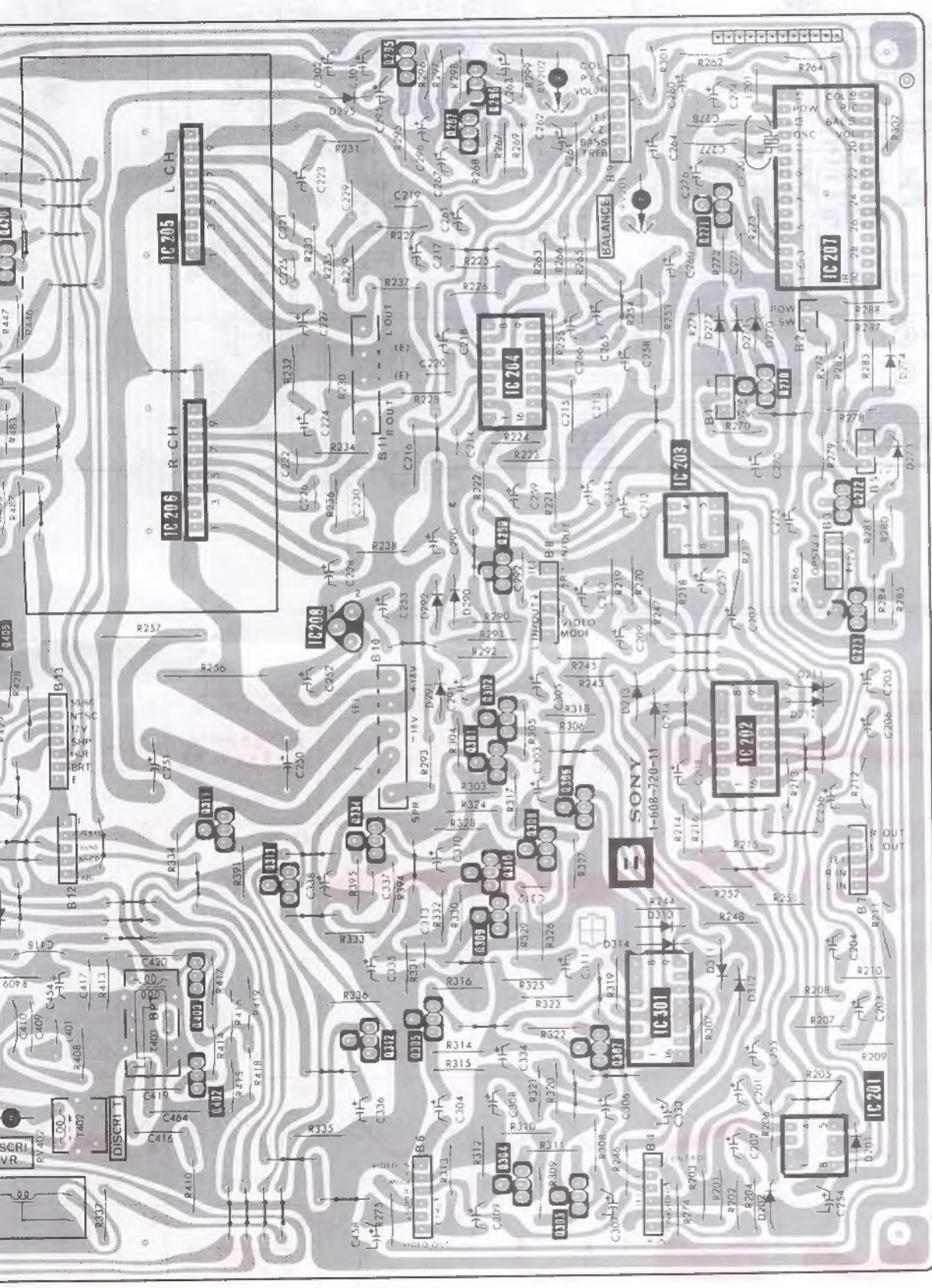
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16

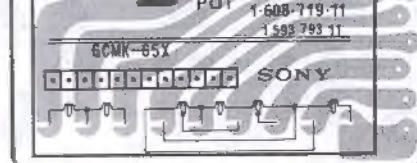
17

| IC | D | ADJ |
|-------|---------|-----------------|
| 295 | | |
| 296 | 1455 | RV406 RV202 |
| | 296 | |
| 267 | 1454 | |
| | 413 | |
| IC205 | | |
| IC207 | 412 | RV201 |
| 271 | | |
| 20 | 1453 | |
| | 410 | |
| | 411 | |
| | 1456 | RV1452 |
| | 270 | |
| | 272 | |
| | 405 | |
| IC204 | 271 | |
| | 274 | |
| 270 | 1452 | |
| | | |
| | 1457 | RV1451 RV405 |
| | 273 | |
| IC206 | | |
| | | |
| | 272 | CV402 RV403 |
| IC203 | | |
| | 1451 | CV401 |
| | 408 | |
| | 290 | |
| | 292 | |
| 09 | 404 | |
| IC208 | 273 | |
| | 409 | |
| 106 | | |
| 105 | | |
| | 211 | |
| 107 | 291,212 | |
| | 213 | |
| | 214 | |
| 302 | | |
| IC202 | | |
| 301 | | |
| | | |
| 306 | | RV404 |
| 311 | | |
| 334 | | |
| 308 | | |
| 310 | | |
| 313 | | |
| | 422 | |
| 309 | | |
| | 313 | |
| | 421 | |
| | 314 | |
| 403 | 401 | |
| | 404,311 | |
| IC301 | 403 | |
| | 312 | |
| 312 | 402 | |
| 305 | | |
| 307 | | |
| 402 | 303 | |
| | | |
| | | RV402 |
| IC201 | | |
| | 201 | |
| | 407 | |
| 304 | | |
| 303 | 302 | RV499 |
| | 202 | |
| Q, IC | D | ADJ |



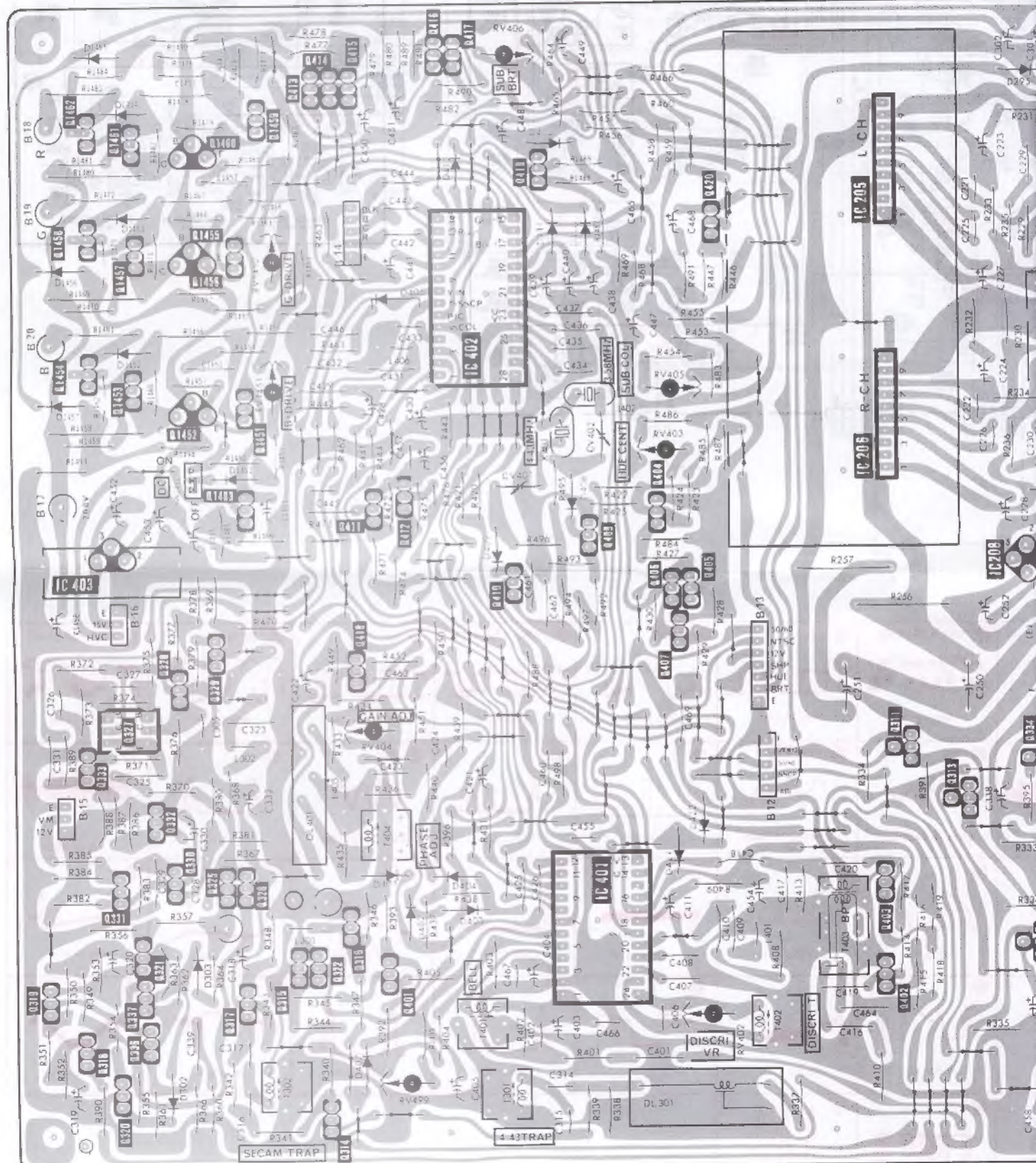


| Q, IC | D | ADJ |
|-------|----------|--------|
| 295 | 1455 | RV406 |
| 416 | 296 | RV202 |
| 417 | 296 | |
| 415 | | |
| 413 | | |
| 414 | 267 | 1454 |
| 1459 | | |
| 1462 | | |
| 1461 | IC205 | 413 |
| 1460 | IC207 | 412 |
| 419 | 271 | RV201 |
| 420 | | |
| 1458 | | |
| 1457 | | |
| 1455 | | |
| 1456 | | |
| IC402 | 270 | RV1452 |
| | 272 | |
| | 405 | |
| IC204 | 274 | |
| 270 | 1452 | |
| 1454 | | |
| 1453 | | |
| 1452 | | |
| 1451 | | |
| IC206 | 273 | RV1451 |
| | | RV405 |
| | 272 | CV402 |
| IC203 | 1451 | RV403 |
| | 408 | CV401 |
| 412 | | |
| 1463 | | |
| 411 | 404 | |
| IC403 | 273 | |
| 410 | | |
| 406 | | |
| 405 | | |
| 407 | | |
| 329 | 302 | |
| 418 | IC202 | |
| 328 | 301 | |
| 327 | 306 | RV404 |
| 333 | 311 | |
| | 334 | |
| | 308 | |
| | 310 | |
| | 313 | |
| 332 | 309 | |
| | 422 | |
| 325 | 313 | |
| 330 | 421 | |
| 331 | 401 | |
| | 404, 311 | |
| 326 | IC301 | |
| | 403 | |
| 316 | 305 | |
| 321 | 312 | |
| 322 | 307 | |
| 315 | 402 | |
| 401 | | |
| 337 | | |
| 319 | | |
| 317 | | |
| 336 | | |
| 318 | IC201 | |
| | 407 | |
| 320 | 304 | |
| | 303 | |
| 314 | 302 | |
| | 202 | |
| | | RV499 |



33

REMOTE CONTROL, AUDIO OUT, VIDEO OUT
PAL/SECAM/NTSC SW



A

B

C

D

E

F

G